



DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL OPERATIONS
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WASHINGTON DC 20350-2000

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OPNAVNOTE 9000
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OPNAV NOTICE 9000

From: Chief of Naval Operations

Subj: ESTIMATED CONSTRUCTION TIMES AND EXPECTED SERVICE LIVES OF
NAVAL VESSELS

Ref: (a) SECNAVINST 5030.8C
(b) OPNAVINST 4770.5H

Encl: (1) Battle Force Ship Estimated Construction Times and Expected Service Lives

1. Purpose. To update and approve ship estimated construction times and expected service life for Navy battle force ships.

2. Background. Section 231 of Title 10, United States Code directs the Secretary of Defense to include a long-range plan for the construction of naval vessels that spans 30 fiscal years for submittal with defense budget materials on an annual basis (referred to as the shipbuilding plan). Reference (a) delineates those ships that are to be included in the plan and make up the battle force. As such, estimated construction times and expected service life in enclosure (1) are critical to projecting battle force inventory levels required for the future and for supporting requirements associated with the planning, programming, budgeting and execution process.

3. Applicability. This notice applies to the Office of the Chief of Naval Operations and all U.S. Navy commands and activities responsible for projecting ship battle force inventory levels for the future and for supporting requirements associated with the planning, programming, budgeting and execution process in the development of the program objective memorandum that supports the annual submission of the President's Budget and the long-range plan for the construction of naval vessels.

4. Discussion. Enclosure (1) is intended for use in long-range shipbuilding planning and will be reviewed annually during development of the shipbuilding plan.

a. The estimated construction times for a battle force ship is equal to the number of years from year authorized and appropriated to delivery. Lead ship construction times are typically longer due to detailed design time requirements.

b. The expected service life is the number of years a naval ship is expected to be in service. It is used as a planning estimate to facilitate the development of ship recapitalization plans. An individual ship's service life may vary. When a battle force ship reaches its expected service life, it is anticipated the ship will be inactivated, decommissioned and removed from the projected force level, unless there is a request to extend the service life. Recommendations for changes to the expected service life must be approved via Deputy Chief of Naval Operations, Warfighting Requirements and Capabilities (CNO N9), per reference (b).

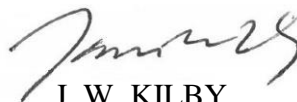
5. Action. Enclosure (1) will be used as the baseline for Navy long-range shipbuilding planning, program objective memorandum development and to support the development of the Congressionally-mandated "Report to Congress on the Annual Long-Range Plan for Construction of Naval Vessels."

6. Records Management.

a. Records created as a result of this instruction, regardless of format or media, must be maintained and dispositioned per the records disposition schedules located on the Department of the Navy Assistant for Administration, Directives and Records Management Division portal page at <https://portal.secnav.navy.mil/orgs/DUSNM/DONAA/DRM/Records-and-Information-Management/Approved%20Record%20Schedules/Forms/AllItems.aspx>.

b. For questions concerning the management of records related to this instruction or the records disposition schedules, please contact the local records manager or the OPNAV Records Management Program (DNS-16).

7. Cancellation Contingency. This notice will be in effect for 1 year or until superseded, whichever occurs first, and may be retained for reference purposes only.



J. W. KILBY

Deputy Chief of Naval Operations,
Warfighting Requirements and Capabilities

Releasability and distribution:

This notice is cleared for public release and is available electronically only via the Department of the Navy Issuances Web site, <https://www.secnav.navy.mil/doni/default.aspx>.

**BATTLE FORCE SHIP ESTIMATED CONSTRUCTION TIMES AND EXPECTED
SERVICE LIVES**

Ship Type	Ship Designation/Class	Expected Service Life-2020 (Note 1)	Estimated Construction Times Lead/Follow 2020
Aircraft Carriers	CVN 68	50	
	CVN 78	50	9
Surface Combatants	CG 47	35 (Note 2)	
	DDG 51	40 (Note 3)	6/6
	DDG 1000	40	
	DDG (X)	40	7/6
	FFG 62	30 (Note 4)	6/5
	LCS	25	5
	SSC (X)	30	5/5
Submarines	SSN 688	33	
	SSN 21	33	
	SSN 774	33	6
	SSN (X)	33	7/6
	SSBN 726	42 (Note 5)	
	SSBN 826	42	7/7
	SSGN	42 (Note 5)	
	SSGN (X)	42	7/7
Amphibious Warfare Ships	LHA 6	45	7/7
	LHD 1	45	
	LPD 17	40	6/6
	LPD 17 Flt II	40	6/6
	LPD (X)	40	6/6
	LSD 41/49	40	
	LSM	20	3/2
Mine Warfare Ships	MCM	30	
Combat Logistics Force	AO 187	35	
	AO 205	40	6/5
	AOE	40	
	AOL	20	3/2
	AKE	40	
	AKE (X)	40	5/4

Command and Fleet Support Ships	LCC	68	
	AS	50	
	AS (X)	50	5/4
	AGOS	30	
	AGOS (X)	30	4/4
	ARS	40	
	ATF	40	
	ATS	40	4/3
Expeditionary Support and Seabasing Support Ships	MPS AKE	40	
	EPF	20	4
	ESB	40	4
	ESD	40	
Other Auxiliaries	HST	20	

LEGEND

CVN	Multi-purpose aircraft carrier (nuclear-powered)	AO	Fleet replenishment oiler
CG	Guided missile cruiser	AOE	Fast combat support ship
DDG	Guided missile destroyer	AOL	Light fleet replenishment oiler
AKE	Dry cargo and ammunition ship	LCC	Command ship
FFG	Guided missile frigate	AS	Submarine tender
LCS	Littoral combat ship	AGOS	Surveillance ship
SSC	Small surface combatant	ARS	Salvage ship
SSN	Attack submarine (nuclear-powered)	ATF	Fleet ocean tug
SSBN	Ballistic missile submarine (nuclear-powered)	ATS	Towing, salvage, and rescue ship
SSGN	Guided missile submarine (nuclear-powered)	MPS AKE	Maritime prepositioned squadron dry cargo and ammunition ship
LHA	Amphibious assault ship (general purpose)	EPF	Expeditionary fast transport
LHD	Amphibious assault ship (multi-purpose)	ESB	Expeditionary sea base
LPD	Amphibious transport dock	ESD	Expeditionary transfer dock
LSD	Dock landing ship	HST	High speed transport
LSM	Medium landing ship	MCM	Mine countermeasures ship
(X)	New ships planned for future procurement or for replacement of legacy ships are annotated with (X) until their class has been named		

Note 1: Service life extensions beyond those approved can be evaluated for each class or individual hull based on the material condition of the ship.

Note 2: Ships inducted into CG phased modernization will achieve additional service life.

Note 3: DDG 51 Flt I and II have 35-year ESLs. DDG Flt IIA and beyond have 40-year ESLs. Adjustments to individual ship ESLs will be evaluated based on combat capability and ship material condition.

Note 4: FFG 62 initial contract design service life is 25 years. The Navy is confident the FFG 62 steel hull and robust structure will last at least 30 years assuming proper life cycle maintenance.

Note 5: For planning purposes, SSBN and SSGN 726 inactivation date is based on 20 years after mid-life refueling overhaul.